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(54) ELECTRODEPOSITION DRUM FOR METALLIC FOIL

(57)Abstract:

PROBLEM TO BE SOLVED: To make an energization condition uniform and to eliminate welding beam marks by applying a plating layer by gold plating or platinum group plating on the outside surface of an inner drum and further thermally spraying titanium oxide thereto to form a thermally sprayed layer, then finishing the surface of the thermally sprayed layer to a specific surface roughness by polishing and forming an electrodeposition drum.

SOLUTION: The plating layer is applied on the outside surface of the inner drum in order to prevent the outside surface from oxidation or corrosion by an electrolyzing liquid and to lower an electric resistance. The titanium oxide in the thermally sprayed layer is applied in order to reduce electric power consumption and to improve product quality and yield and satisfies a high electrical conductivity, peeling resistance, corrosion resistance, wear resistance, etc., for this purpose. Plasma thermal spraying in the atmospheric air is preferable as a thermal spraying method and the thermally sprayed layer of about 50 to 300 μm is formed on the plating layer surface. The surface of the thermally sprayed layer is thereafter finished to the surface roughness of about 2 to 10 μm by polishing. As a result, the titanium oxide layer having a uniform impedance is obtained.

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